

Recombinant Human SLC7A11 293 Cell Lysate

Cat. No. SLC7A11-1698HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 7, (cationic amino acid transporter, y ⁺ system) member 11 (SLC7A11) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

SLC7A11 solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11 [Homo sapiens]

Official Symbol

SLC7A11

Synonyms

SLC7A11; solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11; cystine/glutamate transporter; xCT; amino acid transport system xc-; solute carrier family 7 member 11; calcium channel blocker resistance protein CCB1; solute carrier family 7, (cationic amino acid transporter, y+ system) member 11; CCB1;

Gene ID

23657

mRNA Refseq

NM_014331

Protein Refseq

NP_055146

MIM

607933

UniProt ID

Q9UPY5

Chromosome Location

4q28-q32

Pathway

Amino acid transport across the plasma membrane, organism-specific biosystem;

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Basigin interactions, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of inorganic cations/anions and amino acids/oligopeptides, organism-specific biosystem;

Function

amino acid transmembrane transporter activity; cystine:glutamate antiporter activity; protein binding;

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